Abstract

An asymmetric Fabry-Perot modulator is disclosed having an adjustable resonant cavity length. A preferred embodiment of the invention includes an asymmetric Fabry-Perot modulator having a first reflector adjustably mounted to another portion of the modulator containing a second reflector. The length of the resonant cavity is adjusted by microelectomechanically changing the distance from the first reflector to the second reflector. In turn, this change of the resonant cavity length may tune the modulator to an optimal wavelength corresponding to the electro-absorptance material in the modulator.

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